

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/008328

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ F21V8/00, G09F9/00, G02F1/13357

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ F21V8/00, G09F9/00, G02F1/13357

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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|---------------------------|-----------|----------------------------|-----------|
| Jitsuyo Shinan Koho | 1926-1996 | Toroku Jitsuyo Shinan Koho | 1994-2004 |
| Kokai Jitsuyo Shinan Koho | 1971-2004 | Jitsuyo Shinan Toroku Koho | 1996-2004 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| Y | CD-ROM of the specification and drawings annexed to the request of Japanese Utility Model Application No. 58062/1992 (Laid-open No. 15006/1994) (Koito Manufacturing Co., Ltd.), 25 February, 1994 (25.02.94), Par. Nos. [0007] to [0010]; Figs. 1 to 2 (Family: none) | 1-12, 14 |
| Y | JP 2-32320 A (Tama Denki Kogyo Kabushiki Kaisha), 02 February, 1990 (02.02.90), Page 7, upper left column, line 3 to lower right column, line 14; page 8, lower right column, line 13 to page 9, upper left column, line 15; Figs. 2, 5 (Family: none) | 1-12, 14 |

 Further documents are listed in the continuation of Box C. See patent family annex.

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| * Special categories of cited documents: | |
| "A" | document defining the general state of the art which is not considered to be of particular relevance |
| "E" | earlier application or patent but published on or after the international filing date |
| "L" | document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) |
| "O" | document referring to an oral disclosure, use, exhibition or other means |
| "P" | document published prior to the international filing date but later than the priority date claimed |
| "T" | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| "X" | document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| "Y" | document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "&" | document member of the same patent family |

Date of the actual completion of the international search
25 August, 2004 (25.08.04)Date of mailing of the international search report
07 September, 2004 (07.09.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

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| International application No. PCT/JP2004/008328 |
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| Y | JP 2001-126523 A (Kabushiki Kaisha Advanced Display), 11 May, 2001 (11.05.01), Par. Nos. [0008] to [0010]; Fig. 1 & US 6419369 B1 | 2 |
| Y | JP 2003-157711 A (Matsushita Electric Industrial Co., Ltd.), 30 May, 2003 (30.05.03), Par. Nos. [0020] to [0022]; Fig. 1 (Family: none). | 3,11 |
| Y | JP 2002-289023 A (Casio Computer Co., Ltd.), 04 October, 2002 (04.10.02), Par. No. [0012]; Fig. 2 (Family: none) | 5 |
| Y | JP 2003-132722 A (Kabushiki Kaisha Advanced Display), 09 May, 2003 (09.05.03), Par. Nos. [0010] to [0012]; Figs. 1 to 3 & US 2003/76669 A1 | 6 |
| Y | JP 8-184829 A (Hitachi, Ltd.), 16 July, 1996 (16.07.96), Par. No. [0010]; Figs. 2 to 6 (Family: none) | 7 |
| Y | JP 2002-319308 A (Matsushita Electric Industrial Co., Ltd.), 31 October, 2002 (31.10.02), Par. Nos. [0016] to [0019]; Fig. 1 (Family: none) | 8 |
| Y | JP 7-72815 A (Koito Manufacturing Co., Ltd.), 17 March, 1995 (17.03.95), Par. Nos. [0010] to [0012]; Figs. 1 to 3 & US 5453855 A1 | 9-10 |

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/JP2004/008328**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

As a result of the search, it has become obvious that the matter described in independent Claim 13 is not novel as it is disclosed in a CD-ROM (Koito Manufacturing Co., Ltd.) recording the contents of the specification and drawings attached to the request of Japanese Utility Model Registration Application 4-58062 (Japanese Utility Model Registration Application Kokai 6-15006), 25 February, 1994, Paragraphs 0007-0010, Figs. 1-2. Therefore, the matter common to independent Claims 1, 13 and 16 does not clarify a contribution to the prior art.

Other common matter, which is deemed to be a special technical feature defined in the second sentence of PCT Rule 13. 2, (continued to extra sheet.)

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Claims 1-12, 14

Remark on Protest

The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/008328

Continuation of Box No.III of continuation of first sheet(2)

does not exist except the matter described in Claim 1 in Claims 1-12 and 13 and the matter described in Claim 16 in Claims 16-18.

Therefore, the following four groups of inventions do not comply with the requirement of unity.

1. Claims 1-12, 14
2. Claims 13
3. Claim 15
4. Claims 16-18